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1 Analyzing security protocols with secrecy types and logic programs



Martin Abadi, Bruno Blanchet

January 2005 **Journal of the ACM (JACM)**, Volume 52 Issue 1

Publisher: ACM Press

Full text available: [pdf\(438.64 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)

We study and further develop two language-based techniques for analyzing security protocols. One is based on a typed process calculus; the other, on untyped logic programs. Both focus on secrecy properties. We contribute to these two techniques, in particular by extending the former with a flexible, generic treatment of many cryptographic operations. We also establish an equivalence between the two techniques.

Keywords: Cryptographic protocols, logic programming, process calculi, secrecy properties, typing

2 Power modeling and optimization for embedded systems: Analyzing the energy consumption of security protocols



Nachiketh R. Potlapally, Srivaths Ravi, Anand Raghunathan, Niraj K. Jha

August 2003 **Proceedings of the 2003 international symposium on Low power electronics and design ISLPED '03**

Publisher: ACM Press

Full text available: [pdf\(271.69 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Security is critical to a wide range of wireless data applications and services. While several security mechanisms and protocols have been developed in the context of the wired Internet, many new challenges arise due to the unique characteristics of battery powered embedded systems. In this work, we focus on an important constraint of such devices -- battery life -- and examine how it is impacted by the use of security protocols. We present a comprehensive analysis of the energy requirements of a ...

Keywords: 3DES, AES, DES, DSA, Diffie-Hellman, ECC, RSA, SSL, cryptographic algorithms, embedded system, energy analysis, handheld, low-power, security, security protocols

Analyzing the security of an existing computer system

Matt Bishop

November 1986 **Proceedings of 1986 ACM Fall joint computer conference ACM '86**

Publisher: IEEE Computer Society Press

Full text available: [pdf\(583.45 KB\)](#) Additional Information: [full citation](#), [references](#), [index terms](#)

4 The problems and potentials of voting systems: Analyzing internet voting security

David Jefferson, Aviel D. Rubin, Barbara Simons, David Wagner

October 2004 **Communications of the ACM**, Volume 47 Issue 10

Publisher: ACM Press

Full text available: [pdf\(273.81 KB\)](#) [html\(31.47 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

An extensive assessment of a proposed Internet-based voting system.

5 Software Engineering for Secure Systems (SESS) --- Building Trustworthy

Applications: Security quality requirements engineering (SQUARE) methodology

Nancy R. Mead, Ted Stehney

May 2005 **ACM SIGSOFT Software Engineering Notes , Proceedings of the 2005 workshop on Software engineering for secure systems—building trustworthy applications SESS '05**, Volume 30 Issue 4

Publisher: ACM Press

Full text available: [pdf\(221.21 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Requirements engineering, a vital component in successful project development, often neglects sufficient attention to security concerns. Further, industry lacks a useful model for incorporating security requirements into project development. Studies show that upfront attention to security saves the economy billions of dollars. Industry is thus in need of a model to examine security and quality requirements in the development stages of the production lifecycle. In this paper, we examine a methodol ...

Keywords: process, requirements elicitation, requirements engineering, software engineering

6 Security as a new dimension in embedded system design: Security as a new

dimension in embedded system design

Srivaths Ravi, Paul Kocher, Ruby Lee, Gary McGraw, Anand Raghunathan

June 2004 **Proceedings of the 41st annual conference on Design automation DAC '04**

Publisher: ACM Press

Full text available: [pdf\(209.10 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

The growing number of instances of breaches in information security in the last few years has created a compelling case for efforts towards secure electronic systems. Embedded systems, which will be ubiquitously used to capture, store, manipulate, and access data of a sensitive nature, pose several unique and interesting security challenges. Security has been the subject of intensive research in the areas of cryptography, computing, and networking. However, despite these efforts, *security is ...*

Keywords: PDAs, architectures, battery life, cryptography, design, design methodologies, digital rights management, embedded systems, performance, security, security processing, security protocols, sensors, software attacks, tamper resistance, trusted computing, viruses

7 Agents, interactions and mobility I: A conceptual model for agent-based simulation of physical security systems



Volkan Ustun, Levent Yilmaz, Jeffrey S. Smith

March 2006 **Proceedings of the 44th annual southeast regional conference ACM-SE 44**

Publisher: ACM Press

Full text available: [pdf\(115.27 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Modeling and simulation of physical security systems involves designing and analyzing security systems, protocols, and policies that aim to protect fixed-site facilities against intrusions by external threats, as well as unauthorized acts by insiders. Realistic and credible simulations of such systems require incorporation of human behavior models along with cooperative engagement policies such as team formation, allocation of roles, team reorganization, and distributed decision making. In this ...

Keywords: agent-based simulation, cooperative agents, intelligent agents, physical security systems

8 A methodology for analyzing the performance of authentication protocols



Alan Harbitter, Daniel A. Menascé

November 2002 **ACM Transactions on Information and System Security (TISSEC), Volume 5 Issue 4**

Publisher: ACM Press

Full text available: [pdf\(1.25 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Performance, in terms of user response time and the consumption of processing and communications resources, is an important factor to be considered when designing authentication protocols. The mix of public key and secret key encryption algorithms typically included in these protocols makes it difficult to model performance using conventional analytical methods. In this article, we develop a validated modeling methodology to be used for analyzing authentication protocol features, and we use two ...

Keywords: Authentication, Kerberos, mobile computing, performance modeling, proxy servers, public key cryptography

9 A new approach to security system development

Silvana Castano, Giancarlo Martella, Pierangela Samarati

August 1994 **Proceedings of the 1994 workshop on New security paradigms NSPW '94**

Publisher: IEEE Computer Society Press

Full text available: [pdf\(634.05 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

The development of a security system is generally performed through a multiphase methodology, starting from the initial preliminary analysis of the application environment, up to the physical implementation of the security mechanisms. In this framework, we propose a new approach for the development of security systems based on the reuse of existing security specifications. In the paper we illustrate how reusable specifications can be built by analyzing existing security systems, and ...

10 Research contributions: A review of information security issues and respective research contributions



Mikko T. Siponen, Harri Oinas-Kukkonen

February 2007 **ACM SIGMIS Database**, Volume 38 Issue 1

Publisher: ACM Press

Full text available: [pdf\(353.82 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

This paper identifies four security issues (access to Information Systems, secure communication, security management, development of secure Information Systems), and examines the extent to which these security issues have been addressed by existing research efforts. Research contributions in relation to these four security issues are analyzed from three viewpoints: a meta-model for information systems, the research approaches used, and the reference disciplines used. Our survey reveals that most ...

Keywords: computer science

11 Scaling security: Design, implementation and evaluation of security in iSCSI-based network storage systems

 Shiva Chaitanya, Kevin Butler, Anand Sivasubramaniam, Patrick McDaniel, Murali Vilayannur
October 2006 **Proceedings of the second ACM workshop on Storage security and survivability StorageSS '06**

Publisher: ACM Press

Full text available: [pdf\(296.66 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

This paper studies the performance and security aspects of the iSCSI protocol in a network storage based system. Ethernet speeds have been improving rapidly and network throughput is no longer considered a bottleneck when compared to Fibre-channel based storage area networks. However, when security of the data traffic is taken into consideration, existing protocols like IPSec prove to be a major hindrance to the overall throughput. In this paper, we evaluate the performance of iSCSI when deployed ...

Keywords: IPSec, authentication, encryption, iSCSI

12 Security in embedded systems: Design challenges

 Srivaths Ravi, Anand Raghunathan, Paul Kocher, Sunil Hattangady
August 2004 **ACM Transactions on Embedded Computing Systems (TECS)**, Volume 3 Issue 3

Publisher: ACM Press

Full text available: [pdf\(3.67 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)

Many modern electronic systems---including personal computers, PDAs, cell phones, network routers, smart cards, and networked sensors to name a few---need to access, store, manipulate, or communicate sensitive information, making security a serious concern in their design. Embedded systems, which account for a wide range of products from the electronics, semiconductor, telecommunications, and networking industries, face some of the most demanding security concerns---on the one hand, they are oft ...

Keywords: Embedded systems, architecture, authentication, battery life, cryptographic algorithms, decryption, encryption, hardware design, processing requirements, security, security attacks, security protocols, tamper resistance

13 Techniques and tools for analyzing intrusion alerts

 Peng Ning, Yun Cui, Douglas S. Reeves, Dingbang Xu
May 2004 **ACM Transactions on Information and System Security (TISSEC)**, Volume 7 Issue 2

Publisher: ACM Press

Full text available: [pdf\(1.55 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Traditional intrusion detection systems (IDSs) focus on low-level attacks or anomalies, and raise alerts independently, though there may be logical connections between them. In situations where there are intensive attacks, not only will actual alerts be mixed with false alerts, but the amount of alerts will also become unmanageable. As a result, it is difficult for human users or intrusion response systems to understand the alerts and take appropriate actions. This paper presents a sequence of t ...

Keywords: Intrusion detection, alert correlation, security management

14 Anomalous system call detection

 Darren Mutz, Fredrik Valeur, Giovanni Vigna, Christopher Kruegel
February 2006 **ACM Transactions on Information and System Security (TISSEC)**, Volume 9 Issue 1

Publisher: ACM Press

Full text available: [pdf\(645.58 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Intrusion detection systems (IDSs) are used to detect traces of malicious activities targeted against the network and its resources. Anomaly-based IDSs build models of the expected behavior of applications by analyzing events that are generated during the applications' normal operation. Once these models have been established, subsequent events are analyzed to identify deviations, on the assumption that anomalies represent evidence of an attack. Host-based anomaly detection systems often rely on ...

Keywords: Bayesian network, Intrusion detection, anomaly detection, computer security

15 Legal, ethical, and societal issues in e-commerce: Study on security based on PKI for e-commerce of statistics information system

 Min Liu, Shudong Sun, Miaotiao Xing
August 2005 **Proceedings of the 7th international conference on Electronic commerce ICEC '05**

Publisher: ACM Press

Full text available: [pdf\(303.31 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#)

In this paper, issues about the trend of statistics information merchandizing, and the present situation of statistics information network and statistics information system security, are analyzed. Security construction scheme is put forward, which is appropriate to e-commerce of statistics information system. In the scheme, first, system framework of hierarchy PKI with three levels is established, and system composing elements and their function are studied, as well as flow chart of user certifi ...

Keywords: PKI, e-commerce, security, statistics information

16 Remus: a security-enhanced operating system

 Massimo Bernaschi, Emanuele Gabrielli, Luigi V. Mancini
February 2002 **ACM Transactions on Information and System Security (TISSEC)**, Volume 5 Issue 1

Publisher: ACM Press

Full text available: [pdf\(295.33 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

We present a detailed analysis of the UNIX system calls and classify them according to their level of threat with respect to system penetration. Based on these results, an effective mechanism is proposed to control the invocation of critical, from the security

viewpoint, system calls. The integration into existing UNIX operating systems is carried out by instrumenting the code of the system calls in such a way that the execution is granted only in the case where the invoking process and the valu ...

Keywords: Access control, Linux, privileged tasks, system calls interception, system penetration

17 Security and inference in multilevel database and knowledge-base systems

 Matthew Morgenstern

December 1987 **ACM SIGMOD Record , Proceedings of the 1987 ACM SIGMOD international conference on Management of data SIGMOD '87**, Volume 16 Issue 3

Publisher: ACM Press

Full text available:  pdf(1.71 MB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

This paper addresses the threat to multilevel security that arises from logical inference and the semantics of the application. Such compromises of security are particularly challenging since they circumvent traditional security mechanisms and rely on a user's knowledge of the application. The problems of inference and security have heretofore been amorphous and difficult to circumscribe. We focus on these problems in the context of a multilevel database system and show their relevance to k ...

18 Automated analysis: Automatic placement of authorization hooks in the linux security modules framework

 Vinod Ganapathy, Trent Jaeger, Somesh Jha

November 2005 **Proceedings of the 12th ACM conference on Computer and communications security CCS '05**

Publisher: ACM Press

Full text available:  pdf(252.07 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

We present a technique for automatic placement of authorization hooks, and apply it to the Linux security modules (LSM) framework. LSM is a generic framework which allows diverse authorization policies to be enforced by the Linux kernel. It consists of a kernel module which encapsulates an authorization policy, and *hooks* into the kernel module placed at appropriate locations in the Linux kernel. The kernel enforces the authorization policy using hook calls. In current practice, hooks are ...

Keywords: LSM, SELinux, hook placement, static analysis

19 Modeling methodology A: innovative methodologies in M&S for people and good flow: Developing data fusion systems devoted to security control in port facilities

Enrico Bocca, Simone Viazzo, Francesco Longo, Giovanni Mirabelli

December 2005 **Proceedings of the 37th conference on Winter simulation WSC '05**

Publisher: Winter Simulation Conference

Full text available:  pdf(284.86 KB) Additional Information: [full citation](#), [abstract](#), [references](#)

The paper presents an innovative approach to seaport security problems. In particular the authors propose the Modelling & Simulation and Data Fusion integration to provide an efficient tool to test and improve the container inspection reliability taking into consideration - at the same time - the impact of different security level on system performances. In this context the opportunity given by new standards and normative, in terms of sharing information, highlights the possibility to use Simulat ...

20 Reflections on the verification of the security of an operating system kernel

 Jonathan M. Silverman

October 1983 **ACM SIGOPS Operating Systems Review , Proceedings of the ninth ACM symposium on Operating systems principles SOSP '83**, Volume 17 Issue 5

Publisher: ACM Press

Full text available:  pdf(1.09 MB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

This paper discusses the formal verification of the design of an operating system kernel's conformance to the multilevel security property. The kernel implements multiple protection structures to support both discretionary and nondiscretionary security policies. The design of the kernel was formally specified. Mechanical techniques were used to check that the design conformed to the multilevel security property. All discovered security flaws were then either closed or minimized. This paper ...

Keywords: Confinement channels, Information flow, Multilevel security, Operating system kernel, Specification, Verification

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